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PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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**DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)**

Declaration Submitted with Initial Filing      OR       Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	OSU1159-143C
First Named Inventor	Rizzoni et al.
<b>COMPLETE IF KNOWN</b>	
Application Number	10 / 039,634
Filing Date	November 9, 2001
Group Art Unit	
Examiner Name	

**As a below named inventor, I hereby declare that:**

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MODEL-BASED FAULT DETECTION AND ISOLATION SYSTEM AND METHOD**

(Title of the Invention)

the specification of which  
 is attached hereto  
OR  
 was filed on (MM/DD/YYYY)  as United States Application Number or PCT International

Application Number  and was amended on (MM/DD/YYYY)  (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	
60/247,849	11/09/2000	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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## DECLARATION — Utility or Design Patent Application

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Address

Address

City

State

ZIP

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR

 A petition has been filed for this unsigned inventorGiven Name  
(first and middle [if any]) GiorgioFamily Name  
or Surname RizzoniInventor's  
Signature

Date

Residence: City Upper Arlington

state Ohio

Country USA

Citizenship Italy

Mailing Address 1938 Concord Road

Mailing Address

City Upper Arlington

State Ohio

ZIP 43212

Country USA

NAME OF SECOND INVENTOR:

 A petition has been filed for this unsigned inventorGiven Name  
(first and middle [if any]) AhmedFamily Name  
or Surname SolimanInventor's  
Signature

Date

7/8/02

Residence: City Upper Arlington

State Ohio

Country USA

Citizenship Egypt

Mailing Address 1834 Elmwood Avenue

Mailing Address

City Upper Arlington

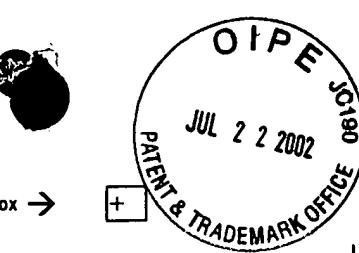
State Ohio

ZIP 43212

Country USA

 Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

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<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Suppl m ntal Sh t Page <u>1</u> of <u>1</u>
--------------------	---

<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Pierluigi		Pisu	
Inventor's Signature 		Date 07/10/02	
Residence: City Columbus	State Ohio	Country USA	Citizenship Italy
Mailing Address 1170 Chambers Road, Apt. 5B			
Mailing Address			
City Columbus	State Ohio	ZIP 43212	Country USA
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Sanket S.		Amberkar	
Inventor's Signature		Date	
Residence: City Ann Arbor	State MI	Country USA	Citizenship USA
Mailing Address 1888 Briar Ridge Drive			
Mailing Address			
City Ann Arbor	State MI	ZIP 48108	Country USA
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Brian T.		Murray	
Inventor's Signature		Date	
Residence: City Novi	State MI	Country USA	Citizenship USA
Mailing Address 40710 Heatherbrook			
Mailing Address			
City Novi	State MI	ZIP 48375	Country USA

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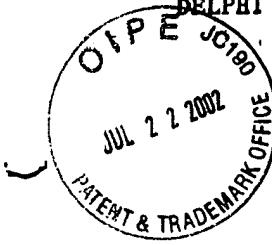
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T-008 P.02/06 F-622



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PTO/SB/01 (7-00)

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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

Declaration  
Submitted with Initial  
Filing OR  Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number OSU1159-143C

First Named Inventor Rizzoni et al.

COMPLETE IF KNOWN

Application Number 10 039,634

Filing Date November 9, 2001

Group Art Unit

Examiner Name

As a below named Inventor, I hereby declare that

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor of patent rights as claimed below of the subject matter which is claimed and for which a patent is sought on the invention named.

**MODEL-BASED FAULT DETECTION AND ISOLATION SYSTEM AND METHOD**

(Title of the Invention)

the specification of which

 is attached hereto

OR

 was filed on (MM/DD/YY) 11/09/2001

as United States Application Number or PCT International Application Number

Application Number and was amended on (MM/DD/YY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above, and acknowledge the duty to disclose information which is material to patentability as defined in 35 U.S.C. 1.35 including the continuous-in-patent application, material information which becomes available between the filing date of the prior application and the national or PCT international filing date of the continuous-in-patent application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(d) of any foreign application(s) for patent or invention's certificate, or 305(d) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YY)	Priority Not Claimed	Certified Copy Attached YES <input type="checkbox"/>	NO <input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

 Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto. I hereby claim the benefit under 35 U.S.C. 1.12(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YY)	Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto.
60/247,289 <i>Reb</i> 60/247,840	11/09/2000	<input type="checkbox"/>

[Page 1 of 2]

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**DECLARATION — Utility or Design Patent Application**

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Name <span style="float: right;">PATENT TRADEMARK OFFICE</span>				
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Address				
City		State	ZIP	
Country		Telephone	Fax	
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>				
NAME OF SOLE OR FIRST INVENTOR		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (First and middle (if any)) Giorgio		Family Name or Surname Rizzoni		
Inventor's Signature		Date		
Residence: City Upper Arlington		State Ohio	Country USA	Citizenship Italy
Mailing Address 1938 Concord Road				
Mailing Address				
City Upper Arlington		State Ohio	ZIP 43212	Country USA
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any)) Ahmed		Family Name or Surname Soliman		
Inventor's Signature		Date		
Residence: City Upper Arlington		State Ohio	Country USA	Citizenship Egypt
Mailing Address 1834 Elmwood Avenue				
Mailing Address				
City Upper Arlington		State Ohio	ZIP 43212	Country USA
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>1</u> supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.				

[Page 2 of 2]

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## DECLARATION

ADDITIONAL INVENTOR(S)  
Supplemental Sheet  
Page 1 of 1

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle if any)		Family Name or Surname	
Piechnig		Pisno	
Inventor's Signature		Date	
Residence: City Columbus	State Ohio	Country USA	Citizenship Italy
Mailing Address 1170 Chambers Road, Apt. SB			
Mailing Address			
City Columbus	State Ohio	ZIP 43212	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle if any)		Family Name or Surname	
Sanket S.		Ambedkar	
Inventor's Signature	<i>Kavita Patel</i>		Date 07/15/02
Residence: City Ann Arbor	State MI	Country USA	Citizenship USA
Mailing Address 1888 Briar Ridge Drive			
Mailing Address			
City Ann Arbor	State MI	ZIP 48108	Country USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle if any)		Family Name or Surname	
Brian T.		Murray	
Inventor's Signature	<i>Brian T. Murray</i>		Date 7/15/02
Residence: City Novi	State MI	Country USA	Citizenship USA
Mailing Address 40710 Hamberbrook			
Mailing Address			
City Novi	State MI	ZIP 48375	Country USA

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**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT**

Application Number	10/039,634
Filing Date	November 9, 2001
First Named Inventor	Rizzani et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	OSU1159-143C

I hereby appoint:

Practitioners at Customer Number

08698

OR

Practitioner(s) named below:

Name	Registration Number



as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

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Assignee of record of the entire interest. See 37 CFR 3.71.  
 Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

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**SIGNATURE of Applicant or Assignee of Record**

Name Brian T. Murray

Signature

Date 7/15/02

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.\*

Total of 5 forms are submitted.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/039,634
Filing Date	November 9, 2001
First Named Inventor	Rizzoni et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	OSU1159-143C

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Name	Registration Number

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Applicant/Inventor.

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Assignee of record of the entire interest. See 37 CFR 3.71.  
 Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

### SIGNATURE of Applicant or Assignee of Record

Name Sanket S. Ambekar

Signature Sanket S. Ambekar

Date 07/15/02

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

Total of 5 terms are submitted.

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**POWER OF ATTORNEY OR  
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Application Number	10/039,634
Filing Date	November 9, 2001
First Named Inventor	Rizzoni et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	OSU1159-143C

I hereby appoint:

Practitioners at Customer Number

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Practitioner(s) named below:

Name	Registration Number

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I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name	Ahmed Soliman
Signature	
Date	7/18/02

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.\*

\*Total of 2 forms are submitted.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

### Application Number

Filing Date November 9, 2001

First Named Inventor Rizzoni et al.

Group Art Unit

Examiner Name

Attorney Docket Number OSU1159-143C

I hereby appoint:

Practitioners at Customer Number

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OR

Practitioner(s) named below:

Name	Registration Number



PATENT TRADEMARK OFFICE

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

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I am the:

Applicant/Inventor.

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Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

### SIGNATURE of Applicant or Assignee of Record

Name

Pierluigi Pisu

Signature

Date

07/10/02

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.\*

\*Total of 5 forms are submitted.